

# WHEATLEY Valves—Short-Pattern Wafer Check Valve

Lightweight, compact design for backflow prevention in gas and liquid applications

#### **APPLICATIONS**

Pipeline applications

#### **ADVANTAGES**

- Prevention of liquid and gas backflow
- Lightweight, compact design

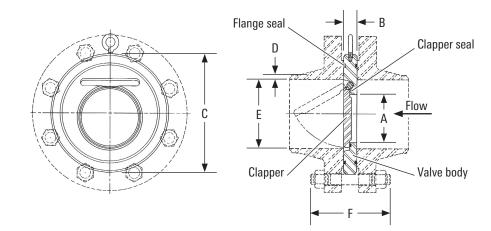
The Cameron portfolio of WHEATLEY\* check valves includes short-pattern wafer check valves, which are ideal in applications where

- media is clean (abrasives are not present)
- flow is steady and nonpulsating
- flow rates are low
- pigs or spheres are not intended to run through the valve
- seat velocity does not exceed
  - liquids at 15 ft/s
  - gases at 100 ft/s.

Note: The wafer check valve clapper can open approximately 50° out when the bore of the adjoining outlet flange (downstream) is equal to that listed in column "E", entitled "Bore Minimum". If a larger-bore flange is used, the maximum possible clapper angle can be increased. However, since "drop-in" type clappers are retained by the flange face, too large a bore will result in the clapper falling out of the valve. As a result, this model cannot be used with a slip-on flange on the downstream side.



Short-pattern wafer check valves.



Drop-in clapper design for 2-in through 12-in ASME and ANSI Class 150 through 600.

## WHEATLEY Valves-Short-Pattern Wafer Check Valve

Dimensions												
Working Pressure, psi	Nominal Size, in	Body- Seat Bore, in A	Body Thick- ness, in B	Body OD, in C	Companion Flange, in		Ring Number	Recommended Stud Length		Weight, Ibm	Order Number	
					Max. Pipe Wall	Pipe Wall	_	O-Ring Ring Join F F	Ring-Type Joint (RTJ)		Serrated O-Ring Face	RTJ Face
					D				F	_		
275 (ASME 150)	2	11/16	3⁄4	41⁄8	0.281	1.939	R22	3¾	41/2	3	9D-973-020027-XXX	9D-979-020027-XXX
	3	11/8	3⁄4	53%	0.300	2.900	R29	41⁄4	5	5	9D-973-030027-XXX	9D-979-030027-XXX
	4	2 <sup>13</sup> ⁄16	3⁄4	61⁄8	0.237	4.026	R36	41⁄4	51⁄4	7	9D-973-040027-XXX	9D-979-040027-XXX
	6	41/2	3/4	83⁄4	0.280	6.065	R43	41/2	51⁄4	12	9D-973-060027-XXX	9D-979-060027-XXX
	8	5%	11/8	11	0.322	7.981	R48	51⁄4	6	27	9D-972-080027-XXX	9D-979-080027-XXX
	10	71/2	11/8	13¾	0.365	10.020	R52	5¾	61⁄2	36	9D-973-100027-XXX	9D-979-100027-XXX
	12	18 <sup>11</sup> /16	11/2	161⁄/8	0.375	12.000	R56	6	6¾	74	9D-973-120027-XXX	9D-979-120027-XXX
720 (ASME 300)	2	11/16	3/4	43/8	0.281	1.939	R23	4	51⁄4	3	9D-973-020072-XXX	9D-979-020072-XXX
	3	11/8	3/4	51%	0.300	2.900	R31	43⁄4	5¾	6	9D-973-030072-XXX	9D-979-030072-XXX
	4	2 <sup>13</sup> ⁄16	3⁄4	71⁄8	0.237	4.026	R37	5	61⁄4	7	9D-973-040072-XXX	9D-979-040072-XXX
	6	41/2	7/8	91/8	0.280	6.065	R45	5¾	6¾	17	9D-973-060072-XXX	9D-979-060072-XXX
	8	5%	11/8	121⁄8	0.322	7.981	R49	61⁄2	71/2	33	9D-973-080072-XXX	9D-979-080072-XXX
	10	71/2	11/2	14¼	0.365	10.020	R53	71/2	81⁄4	60	9D-973-100072-XXX	9D-979-100072-XXX
	12	811/16	2	16%	0.375	12.000	R57	81⁄2	91⁄4	105	9D-973-120072-XXX	9D-979-120072-XXX
1,440 (ASME 600)	2	11/16	3⁄4	43/8	0.218	1.939	R23	43⁄4	51⁄2	3	9D-973-020144-XXX	9D-979-020144-XXX
	3	11/8	3⁄4	51%	0.300	2.900	R31	51⁄2	6	6	9D-973-030144-XXX	9D-979-030144-XXX
	4	25/8	7/8	75⁄8	0.337	3.826	R37	61⁄2	7	10	9D-973-040144-XXX	9D-979-040144-XXX
	6	41/8	11/8	101⁄2	0.432	5.761	R45	73⁄4	8	26	9D-973-060144-XXX	9D-979-060144-XXX
	8	5	11/2	15%	0.500	7.625	R49	9	91⁄4	48	9D-973-080144-XXX	9D-979-080144-XXX
	10	7	21/4	15¾	0.500	9.750	R53	10¾	111/4	112	9D-973-100144-XXX	9D-979-100144-XXX
	12	81⁄2	23/8	18	0.500	11.750	R57	111/8	11%	152	9D-973-120144-XXX	9D-979-120144-XXX

How to Order						
Part Number	Description <sup>†</sup>					
9D-973-XXXXXX-167	2- to 8-in Class 300, phosphorus-coated carbon steel body, 316 stainless steel trim, highly saturated nitrile (HSN) seals, NACE compliance, service from –50 to 300 degF [–46 to 149 degC]					
9D-973-XXXXXX-169	2- to 8-in Class 300, phosphorus-coated carbon steel body, 316 stainless steel trim, high-strength synthetic-rubber seals, NACE compliance, service from –40 to 400 degF [–40 to 204 degC]					
9D-973-XXXXXX-170	8- to 12-in Class 600, phosphorus-coated carbon steel body and trim, HSN seals, NACE compliance, service from -50 to 300 degF [-46 to 149 degC]					
9D-973-XXXXXX-171	8- to 12-in Class 600, phosphorus-coated carbon steel body and trim, high-strength synthetic-rubber seals, NACE compliance, service from –40 to 400 degF [–40 to 204 degC]					
9D-973-XXXXXX-367	2- to 12-in 316 stainless steel body and trim, HSN seals, NACE compliance, service from –50 to 300 degF [–46 to 149 degC]					
9D-973-XXXXXX-369	2- to 12-in 316 stainless steel body and trim, high-strength synthetic-rubber seals, NACE compliance, service from -40 to 400 degF [-40 to 204 degC]					

<sup>†</sup> Sour-service low-temperature trim included.

Body	Clapper	O-Ring Seal		
	2- to 8-in Class 300	8-in to 12-in Class 600	_	
Carbon steel (phosphorus coating)	316 stainless steel	Carbon steel (phosphorus coating)	HSN	
316 stainless steel	316 stainless steel	316 stainless steel	High-strength synthetic rubber	



Body face sealing surfaces - O-ring (left) and RTJ (right).

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